

## Safety Advisory Committee

October 5, 2012

2:00 – 3:30 PM

### Minutes

Committee Member	Representing	Present
Anderson, Erik	Materials Sciences Division	X
Bello, Madelyn	Human Resources Advisor	X
Blodgett, Paul M.	Environment, Health and Safety Division	X
Carithers, William	Physics Division	
Christensen, John N.	Earth Sciences Division	X
Floyd, Jim	Safety Advisory Committee Chair	X
Franaszek, Stephen	Genomics Division	X
Fujikawa, Brian	Nuclear Science Division	
Giuntoli, Patricia	Computing Sciences Directorate	
Lukens Jr., Wayne W.	Chemical Sciences Division	X
Lunden, Melissa	Environmental Energy Technologies Division	X
Martin, Michael C.	Advanced Light Source Division	
More, Anil V.	Office of the CFO Advisor	
Sauter, Nicholas	Physical Biosciences Division	X
Seidl, Peter	Accelerator & Fusion Research Division	X
Taylor, Scott E.	Life Sciences Division	X
Tomaselli, Ann	Information Technology Division	X
Tucker, Eugene	Facilities Division	X
Thomas, Patricia M.	Safety Advisory Committee Secretary	X
Wong, Weyland	Engineering Division	X

**Others Present:** Joe Dionne, Julie Drotz, Howard Hatayama, Kevin Hartnett, Mike Kritscher, Glenn Kubiak, Bob Mueller, Matthew Perry, Aundra Richards, Andreas Schmid,

### Report to the Lab Director – Jim Floyd

During FY12, the Committee has focused on strategically important issues: risk management, customer service, and communications. The Lab Director asked the Committee to specifically work on improving the outcome of LBNL's accident/incident investigation process.

The Committee's interaction with the Environment, Health, Safety, and Security Division (EHSS) has improved. We worked together to improve shop safety by developing methods of implementing the 2-person rule via web cam. The proposed changes to the Area PPE policy implementation involved input from hundreds of people throughout LBNL.

## Accident / Incident Investigations

There are several corrective actions already in progress. The Committee did not want to duplicate the efforts of other groups. A diverse SAC subcommittee developed a consensus draft charter that defined the attributes of good investigations:

- We do not seek to blame individuals;
- We look beyond the individual's actions to understand underlying organizational issues;
- We seek to learn from both the positive as well as negative actions that occur;
- We will share what we learn so that others can benefit from our analyses;
- Incident analysis will follow the same collaborative, analytical approach we use in our science; and
- Incident analysis will take place in a timely manner and the results will be openly made available to the Lab community.

The charter was reviewed by the Committee, submitted to the Lab Director, and accepted. The next step will be to roll out the charter and execute the improved process. The intent is for the charter to be given to everyone on an investigation team. There was a question about whether training would be provided to investigation teams. The Office of Contractor Assurance / Issues Management (OCA) will provide training on the charter and causal analysis methods appropriate to the incident. Dr. Alivisatos will introduce the charter to the Associate Lab Directors and Division Directors, ask for their feedback, and get their buy-in.

The next step will be to evaluate how well the investigation process is functioning. At this time, LBNL's systems are not culturally oriented to producing reports that meet the desired attributes. The SAC is looking at how we can make a difference. Quality Assurance will be built into the investigation process, not just at the end. It will include modeling and coaching in performing investigations, and looking at the words used in the report. It is difficult to do investigations right – it will take time to improve. We know there are problems with identifying the right root causes because the corrective actions have not been effective in preventing similar problems from recurring. SAC will be working with OCA to develop an evaluation methodology.

Aundra Richards was asked to comment on what DOE/BSO would like to see improved in our accident /incident investigations. She will be looking for:

- The right corrective actions;
- Follow up on implementation of corrective actions;
- Prompt compensatory measures to prevent similar accidents;
- Evidence that the corrective actions were effective.

Recently, there has been about one investigation per month, for a variety of different types of incidents. Most of them are smaller investigations. There are thresholds that trigger root cause or apparent cause analyses.

## Communications

SAC will be working with the new EHSS Communications Manager to improve communication of changes in policies and procedures. It is difficult to ensure information about changes reaches all researchers. Some examples of recent EHSS communications projects were the changes in radiation signs and the changes to the PPE requirements for cryogenics. We worked on outreach for the draft changes to the area PPE policy implementation procedures.

## Risk Management

How we define safety problems is critical to optimizing functionality. A pilot program is being conducted on improving electrical equipment safety. The Committee is working with Rebecca Rishell and Bill Johansen. Glenn Kubiak has become active in the National Laboratories COO group, which is currently working on enterprise risk management. They are looking for examples of risk prioritization and management programs.

There was a group discussion of meeting attendees about the highest priorities for Divisions that might be addressed through risk management. The results of the discussion are summarized in the following table.

Division	Issue	Note
EETD	Off-site safety	Integration with ESD
PBD	Bio authorizations	Concurred by LSD
CSD	Laser safety officer – need experience now; CMS and Electrical equipment – improve technology use	LSO concurred by PBD and AFRD; CMS technical issues concurred by ESD
MSD	Fit up of labs -- improve FAC/EHS interface	
JGI	CATS GERT for off-site people Fire extinguisher training	
FAC	Traffic/pedestrian safety	Concurred by BSO and AFRD
AFRD	Laser safety Traffic and pedestrian safety	
ESD	CMS – scope Low-level radiation	Glen Kubiak – take this to DOE?
EG	Aging work force (material handling/ slip and trip)	

The meeting was adjourned at 3:30 PM  
Respectfully submitted, Patricia M. Thomas, SAC Secretary